	Application No.	Applicant(s)
Notice of Allowability	Application No.	Applicant(s)
	10/619,649	HETZLER ET AL.
Notice of Allowability	Examiner	Art Unit
	Mujtaba K. Chaudry	2112
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 5) or other appropriate communication is supplication is supplication in supplicati	this application. If not included
1. This communication is responsive to <u>2/25/2007</u> .		
2. The allowed claim(s) is/are <u>1-7,10-25 and 45-65</u> .	•	·
 3. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents had 2. Certified copies of the priority documents had 	ve been received.	
3. Copies of the certified copies of the priority		
International Bureau (PCT Rule 17.2(a)).		m the national stage application from the
* Certified copies not received:	•	
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	E" of this communication to file NMENT of this application.	a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g	omitted. Note the attached EXA ives reason(s) why the oath or	MINER'S AMENDMENT or NOTICE OF declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") m	ust be submitted.	•
(a) ☐ including changes required by the Notice of Draftspe		(PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		(
(b) ☐ including changes required by the attached Examine Paper No./Mail Date	er's Amendment / Comment or	n the Office action of
Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such in	R 1.84(c)) should be written on the name the header according to 37 CFF	e drawings in the front (not the back) of t 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN	posit of BIOLOGICAL MATE T FOR THE DEPOSIT OF BIO	RIAL must be submitted. Note the LOGICAL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Mation of Infi	armed Datast Assissation
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948		ormal Patent Application
_	Paper No./N	mmary (PTO-413), ⁄lail Date <u>4/23/2007</u>
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 2/25/2007 	7. 🗌 Examiner's A	Amendment/Comment
Examiner's Comment Regarding Requirement for Deposi of Biological Material	t 8. 🛛 Examiner's S	Statement of Reasons for Allowance
	9. 🗌 Other	AD
\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc		GUYLAMARRE
(1) 4/23/07		PHIMARY EXAMINER
U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)	Notice of Allowability	Part of Paper No./Mail Date 2007042

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DETAILED ACTION

Applicants' response to Ex parte Quayle action was received February 25, 2007.

- Claims 1-7, 10-25 and 45-65 remain active.
- Drawings are accepted.
- Specification is accepted.
- Claim objections and rejections are withdrawn.
- IDS filed are considered. PTO 1449 is attached.
- International Search Report considered; Examiner's form PTO-892 attached.

Application allowed.

Reasons for Allowance

Claims 1-7, 10-25 and 45-65 are allowed. The following is a statement of reasons for the indication of allowable subject matter:

Independent claim 1 of the present application teaches, for example, a method for increasing failure tolerance of a storage system having a plurality of arrays, each array having a plurality of storage units, the method comprising steps of: selecting a recipient array from the plurality of arrays; selecting a donor array from the plurality of arrays when a difference between a minimum Hamming distance of the donor array and a minimum Hamming distance of recipient array is greater or equal to 2; selecting a donor storage unit in the donor array; and rebuilding at least a portion of lost recipient information from the recipient array on the selected storage unit in the donor array. The prior arts of record do not teach nor fairly suggest the foregoing

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limitations. Particularly, the prior arts of record do not teach or suggest, "...selecting a donor array from the plurality of arrays when a difference between a minimum Hamming distance of the donor array and a minimum Hamming distance of recipient array is greater or equal to 2; selecting a donor storage unit in the donor array; and rebuilding at least a portion of lost recipient information from the recipient array on the selected storage unit in the donor array." These limitations are not obvious over the prior arts of record and are believed to be novel.

Independent claim 45 recites similar limitations as those found in claim 1 and therefore is allowable as well.

Dependent claims 2-7, 10-25 and 46-65 depend from independent claims 1 and 45 and inherently include the limitations therein and therefore are allowable as well.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mujtaba K. Chaudry whose telephone number is 571-272-3817. The examiner can normally be reached on Mon-Fri 9-7:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis-Jacques can be reached on 571-272-6962.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mujtaba Chaudry Art Unit 2112

April 23, 2007

GUY LAMARRE
PRIMARY EXAMINED